

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A server-client type system in which a terminal device on a client side is connected to a server through an ISDN network and corresponding one or at least two digital service units, wherein

said server comprises:

notification means for notifying, when a large volume of data to be transmitted whose volume is not less than a predetermined value is generated, to said terminal device as a transmission destination to the effect that the large volume of data is to be transmitted by the D-channel packet exchange; and

transmission means for, after the reception of a data transmission timing signal from said terminal device, starting transmission of said large volume of data using a B-channel to cause the terminal device to download the large volume of data, and

said terminal device comprises:

monitoring means for monitoring, over a period of time, a state of a free B-channel line of all ISDN communication devices on the client side connected to said digital service unit to which the terminal device in question is connected upon receiving said notification of transmission of the large volume of data from said server; and

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transmission allowance notifying means for notifying said server of said data transmission timing signal by the D-channel packet exchange at timing not preventing use of a B-channel line with the help of said monitoring means.

2. (original): The server-client type system according to claim 1, wherein said terminal device comprises time zone determination means for determining, upon receiving said notification of transmission of the large volume of data from said server, whether the reception time is within a B-channel use-allowed time zone or not and when within the B-channel use-allowed time zone, transmitting said data transmission timing signal to said server.

3. (original): The server-client type system according to claim 1, wherein said terminal device if the time when said notification of transmission of the large volume of data is received from said server is within a B-channel use-allowed time zone, upon a lapse of a first predetermined time with the B-channels of all the ISDN communication devices connected to said digital service unit to which the terminal device in question is connected being all free, notifies said server of a transmission allowance to cause the server to transmit said large volume of data, and

if the time when said notification of transmission of the large volume of data is received from said server is not within said B-channel useallowed time zone and at that time, a part of the

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Bchannels of all the ISDN communication devices connected to said digital service unit to which the terminal device in question is connected are free, notifies said server of a transmission non-allowance to cause the server receiving the transmission non-allowance to again notify said terminal device to the effect that said large volume of data is to be transmitted by the Dchannel packet exchange upon a lapse of a second predetermined time.

4. (original): The server-client type system according to claim 3, wherein said terminal device conducts calling to said server for downloading in place of said transmission allowance notification.

5. (original): The server-client type system according to claim 1, wherein said terminal device conducts calling to said server for downloading, if there is at least one free B-channel line among all the ISDN communication devices connected to said digital service unit to which the terminal device in question is connected when the terminal device receives said notification of transmission of the large volume of data from said server.

6. (original): A server-client type system in which at least one terminal device on a client side is connected to a server through an ISDN network and corresponding one or at least two digital service units, wherein

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said server comprises:

notification means for notifying, when a large volume of data to be transmitted whose volume is not less than a predetermined value is generated, to said terminal device as a transmission destination to the effect that the large volume of data is to be transmitted together with a necessary data transmission time by the D-channel packet exchange; and

transmission means for, after the reception of a data transmission allowance signal from said terminal device, starting transmission of said large volume of data using a B-channel to cause the terminal device to download the large volume of data, and

said terminal device comprises:

announcement means for, upon receiving said notification of transmission of the large volume of data with the data transmission time applied from said server, announcing said data transmission time to authorize a user to determine allowance/non-allowance of transmission; and

transmission allowance notifying means for notifying said transmission allowance signal by the D-channel packet exchange through operation of said user based on the announcement of said announcement means.

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7. (currently amended): A data downloading method in a server-client type system for transmitting data generated at a server to a terminal device on an arbitrary client side for downloading through an ISDN network and a digital service unit, comprising ~~the steps of:~~

~~the-a step~~, by said server, of notifying, when a large volume of data to be transmitted whose volume is not less than a predetermined value is generated, to said terminal device as a transmission destination to the effect that the large volume of data is to be transmitted by the D-channel packet exchange,

the steps, by said terminal device, of

receiving said notification of transmission of the large volume of data, of monitoring, over a period of time, a state of a free B-channel line of all ISDN communication devices connected to said digital service unit to which the terminal device in question is connected, and

notifying said server of a data transmission timing signal by the D-channel packet exchange at timing not preventing use of a B-channel line, and

~~the-a step~~, by said server, of, after receiving the data transmission timing signal, starting transmission of said large volume of data using the B-channel to cause said terminal device to download the large volume of data.

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8. (original): The data downloading method according to claim 7, wherein said terminal device, upon receiving said notification of transmission of the large volume of data from said server, determines whether the reception time is within a B-channel use-allowed time zone or not and

when within the B-channel use-allowed time zone, immediately transmits said data transmission timing signal to said server and

when not within said B-channel use-allowed time zone, monitors a state of free B-channel lines.

9. (original): The data downloading method according to claim 7, wherein said terminal device if the time when said notification of transmission of the large volume of data is received from said server is within a B-channel use-allowed time zone, upon a lapse of a first predetermined time with the B-channels in all the ISDN communication devices connected to said digital service unit to which the terminal device in question is connected being all free, notifies said server of a transmission allowance to cause the server to transmit said large volume of data, and

if the time when said notification of transmission of the large volume of data is received from said server is not within said B-channel use-allowed time zone and at that time, a part of the Bchannels in all the ISDN communication devices connected to said digital service unit to which

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the terminal device in question is connected are free, notifies said server of a transmission non-allowance to cause the server receiving the transmission non-allowance to again notify said terminal device to the effect that said large volume of data is to be transmitted by the Dchannel packet exchange upon a lapse of a second predetermined time.

10. (original): The data downloading method according to claim 9, wherein said terminal device conducts calling to said server for downloading in place of said transmission allowance notification.

11. (original): The data downloading method according to claim 7, wherein said terminal device conducts calling to said server for downloading, if there is at least one free Bchannel line among all the ISDN communication devices connected to said digital service unit to which the terminal device in question is connected when the terminal device receives said notification of transmission of the large volume of data from said server.

12. (currently amended): A data downloading method in a server-client type system for transmitting data generated at a server to a terminal device on an arbitrary client side for downloading through an ISDN network and a digital service unit, comprising ~~the steps of:~~
~~the-a step, by said server, of notifying, when a large volume of data to be transmitted whose volume is not less than a predetermined value is generated, to said terminal device as a~~

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transmission destination to the effect that the large volume of data is to be transmitted together with a data transmission time by the D-channel packet exchange,

~~the-a~~ step, by said terminal device receiving the notification, of announcing said data transmission time to authorize a user to determine allowance/non-allowance of transmission and notifying said transmission allowance signal by the D-channel packet exchange through operation of said user based on the announcement, and

~~the-a~~ step, by said server, of, after receiving the data transmission allowance signal, starting the transmission of said large volume of data using the B-channel to cause said terminal device to download the large volume of data.